Areas benefiting from a modernized National Height System	Estimated Value to Constituents	Explanation of Benefits
Nationwide Terrain	\$33.5 million	Replace less-accurate Level 1 DEMs that cost USGS approximately \$33.5 Million Enable rapid generation of contours for USGS maps and GISs nationwide Enable 3-D modeling by USACE, FHA, FRA, FAA,
Nationwide Watersheds	\$100 million	EPA, USFS, etc. Automated hydrologic modeling by NWS and FEMA to predict locations/ volumes of peak water concentrations
Special Flood Hazard Areas (SFHAs)	\$225+ million	Automated hydraulic modeling by FEMA to determine depth and extent of flood waters Determination of flood risks and
Coastal Erosion Zones	\$11.25+ million	Accurate determination of coastal erosion rates Determination of insurance rates
Urban Areas	\$500 million	Urban planning Intelligent Transportation System (ITS) planning Elevation layer in GIS database Stormwater management
Farm Lands	\$1.7 billion	Precision farming for planned application of water, fertilizer, etc. Control of unwanted run-off and stream contamination
Maritime Navigation and Safety	\$9.6 billion	Positioning of dredges Positioning of cargo ships
Surveying Industry	Not estimated	Vastly improved survey procedures
Totals	\$12+ billion	

Table of estimated benefits from a modernized National Height System summarized from several of the Study tables

THE VALUE OF HEIGHT MODERNIZATION

THE BIGGIES:

- -MACHINE CONTROL
- -AGRICULTURE
- -NAVIGATION
- -GIS/GEOSPATIAL POSITIONING